

Rabbit VDAC1 Polyclonal Antibody | anti-VDAC1 antibody

VDAC1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288985	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

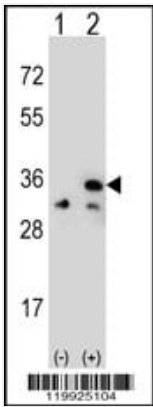
PRODUCT SYNONYMS

VDAC1; Polyclonal Antibody; VDAC1 Antibody (Center); Voltage-dependent anion-selective channel protein 1; VDAC-1; hVDAC1; Outer mitochondrial membrane protein porin 1; Plasmalemmal porin; Porin 31HL; Porin 31HM; VDAC; anti-VDAC1 antibody

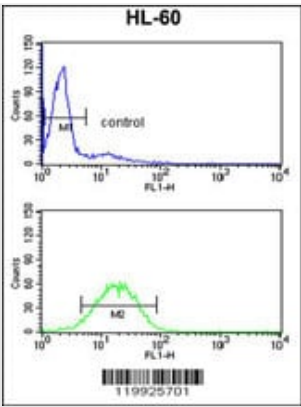
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This VDAC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-124 amino acids from the Central region of human VDAC1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	95-124
Sequence Length	283
Applicable Applications for anti-VDAC1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

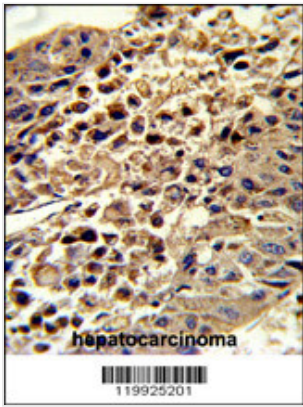
IMAGES



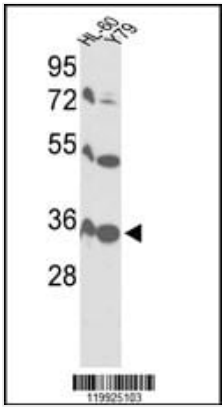
WB (Western Blot)
Western blot analysis of VDAC1 (arrow) using rabbit polyclonal VDAC1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the VDAC1 gene.



FCM/FACS (Flow Cytometry)
VDAC1 Antibody (Center) flow cytometry analysis of HL-60 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with VDAC1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of VDAC1 Antibody (Center) in HL-60, Y79 cell line lysates (35ug/lane). VDAC1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-VDAC1 antibody	VDAC1 forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. It adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation-selective. The protein may participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis.
Product Categories/Family for anti-VDAC1 antibody	Cancer; Cell Biology; Metabolism; Neuroscience; Signal Transduction
References	Shoshan-Barmatz,V., Biochim. Biophys. Acta 1787 (5), 421-430 (2009) Hiller,S., Science 321 (5893), 1206-1210 (2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507879
NCBI GeneID	7416
NCBI Accession #	NP_003365.1
NCBI GenBank Nucleotide #	NM_003374.2

UniProt Accession #	P21796; Q5FVE7; Q9UIQ5; Q9UPL0; B3KVK4; D3DQ93
Molecular Weight	30773
NCBI Official Full Name	voltage-dependent anion-selective channel protein 1
NCBI Official Synonym Full Names	voltage-dependent anion channel 1
NCBI Official Symbol	VDAC1
NCBI Official Synonym Symbols	PORIN; VDAC-1
NCBI Protein Information	voltage-dependent anion-selective channel protein 1
UniProt Protein Name	Voltage-dependent anion-selective channel protein 1
UniProt Gene Name	VDAC1
UniProt Synonym Gene Names	VDAC; VDAC-1; hVDAC1
UniProt Entry Name	VDAC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/vdac1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/288985>